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(54) **HOLLOW BALL TYPE VIBRATION SOUND
PRODUCING TOOL AND BALL GAME CHEERING
TOOL**

pain even when continuously swung in one hand since it is relatively lightweight.

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(57) Abstract:

PURPOSE: To provide the sound producing tool which can be swung relatively easily even in a crowded place to produce a sound and gives no pain even when used in a hand for a long time.

CONSTITUTION: The hollow ball type vibration sound producing tool 1 consists of a spherical ball shell, and internal elements, i.e., granular bodies put in the shell in a sealed stage. The ball shell 2 has an about 75mm diameter and its semispherical upper shell 4 and lower shell 5 are joined together having their circular opening parts opposite each other. The internal elements 3 are formed by cutting a wire material of polyethylene for forming the upper shell 4 and lower shell 5 to 2 to 4mm length and charged in one sound producing tool 1 by about 25g. One element weighs about 10 to 40mg and the number of the internal elements 3 is about 1000 to 2000. The apparent capacity ratio of the internal elements 3 to the capacity of the hollow part of the ball shell is about 1:10 to 1:3. The sound producing tool 1 is about 30 to 100g in total weight and gives no

